

Cancel claims 65, 72 and 74 without prejudice.

48. (Amended) An image display system comprising:

(a) at least one complimentary screen of one of light emitting or light source modulating devices in a two dimensional array of N (a real number) pixels, from which raster elements comprising one or more pixels are sequentially generated;

(b) a raster multiplying system comprising a plurality of light dividing elements, each said light dividing element to deflect a proportional part of a raster element of the complimentary screen as a light beam and transmit the rest of said beam to another light dividing element to simultaneously form copies of the generated raster elements, with said copies of said raster elements to be used in forming P blocks, each block comprising a two dimensional array of pixels;

(c) an array of controllable modulators to simultaneously and independently modulate each of the raster elements for each of said P blocks, each said modulator having an output to coincide with a block of the image; and

(d) a surface on which an image with a resolution of M pixels is formed and displayed, comprised of said P blocks, where the number M exceeds the number N and where said components of (a), (b), (c), (d) are placed in the mentioned order of the light path of the complimentary screen.

70. (Amended) A method for forming a hologram generated as a 3D

holographic image by simultaneous forming of P constituent blocks of said hologram on an image display surface, so that the hologram is presented as comprised of a plurality of P blocks, a block having a two dimensional array of pixels, comprising the steps of:

(a) providing a complimentary screen having a two dimensional array of N pixels from which a plurality of raster elements of one or more pixels are generated with one or more of said generated raster elements to form a block of a hologram;

(b) using a raster multiplying system comprising an array of at least partly light transmitting elements to separate a raster element corresponding one beam into a plurality of beam components to simultaneously form a plurality of copies of a said generated raster element, with said generated copies of said raster element forming P blocks each block comprising a two dimensional array of pixels;

(c) transmitting the formed beam components to an array of controllable modulators, to independently modulate the beam component corresponding to each raster element copy in accordance with control signals applied for each of said P blocks;

(d) repeating the procedure successively generating other raster elements from said complimentary screen, to simultaneously form a modulated raster in each of said P blocks; and